

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE
PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

- 5 1. An air transfer apparatus, comprising:
a door frame having a top, a bottom and opposed sides,
the top, bottom and sides defining a door receiving cavity;
a door positioned within the door receiving cavity, the
door being pivotally mounted to one of the opposed sides of
10 the door frame for pivotal movement between an open and a
closed position, the door having a first face and a second
face; and
at least one fan positioned in the door and adapted to
move air from one of the first face or the second face to the
15 other of the first face or the second face.
2. The air transfer apparatus as defined in Claim 1, wherein
the door is one of transparent or translucent, thereby
facilitating viewing of persons and objects through the door.
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3. The air transfer apparatus as defined in Claim 1, wherein
there is more than one fan.
- 25 4. The air transfer apparatus as defined in Claim 4, wherein
there is at least one fan moving air from the first face to
the second face and at least one fan moving air from the
second face to the first face.
- 30 5. The air transfer apparatus as defined in Claim 1, wherein
the frame is expandable to accommodate different sizes of
openings.
- 35 6. The air transfer apparatus as defined in Claim 5, wherein

at least one of the opposed sides of the frame is expandable to accommodate different widths of openings.

7. The air transfer apparatus as defined in Claim 6, wherein
5 at least one of the opposed sides of the frame has a telescopic expansion assembly which includes at least one pressure member selectively movable toward and away from the selected one of the opposed sides of the door frame, at least one male coupling on one of the pressure member or the
10 selected one of the opposed sides of the door frame and at least one female coupling on the other of the pressure member or the selected one of the opposed sides of the door, the at least one male coupling and the at least one female coupling being matingly engaged, means being provided to maintain the
15 male coupling and the female coupling in an extended telescopic position.

8. The air transfer apparatus as defined in Claim 7, wherein a spring is positioned within the female coupling, the spring
20 biasing the male coupling into the extended telescopic position.

9. The air transfer apparatus as defined in Claim 5, wherein a shield is provided to form an air seal around the frame
25 when the frame is expanded.

10. The air transfer apparatus as defined in Claim 5, wherein the top of the frame is expandable to accommodate different heights of openings.

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11. The air transfer apparatus as defined in Claim 5, wherein a scissors expansion assembly is provided as means for expanding the frame.

12. An air transfer apparatus, comprising:

a door frame having a top, a bottom and opposed sides, the top, bottom and opposed sides defining a door receiving cavity;

5 a door positioned within the door receiving cavity, the door being pivotally mounted to one of the opposed sides of the door frame for pivotal movement between an open and a closed position, the door having a first face and a second face;

10 at least one fan positioned in the door and adapted to move air from the first face to the second face; and

the door frame having an expansion assembly which is expandable to accommodate different sizes of openings; and

15 a shield being provided to stop air movement around the frame when the expansion assembly is expanded.

13. The air transfer apparatus as defined in Claim 12, wherein there is no material difference between the top and the bottom, the frame being capable of being rotated prior to
20 installation in order to position the pivotal mounting for the door to either side and the frame being capable of being inverted prior to installation in order to have the door opening either inward or outward.

25 14. The air transfer apparatus as defined in Claim 12, wherein the expansion assembly includes at least one pressure member selectively movable toward and away from the selected one of the opposed sides of the door frame, at least one male coupling on one of the pressure member or the selected one of
30 the opposed sides of the door frame and at least one female coupling on the other of the pressure member or the selected one of the opposed sides of the door, the at least one male coupling and the at least one female coupling being matingly engaged, means being provided to maintain the male coupling

and the female coupling in an extended telescopic position.

15. The air transfer apparatus as defined in Claim 14,
wherein a spring is positioned within the female coupling,
5 the spring biasing the male coupling into the extended
telescopic position.

16. The air transfer apparatus as defined in Claim 12,
wherein the top of the frame is expandable to accommodate
10 different heights of openings.

17. The air transfer apparatus as defined in Claim 12,
wherein the expansion assembly is a scissors expansion
15 assembly.

18. The air transfer apparatus as defined in Claim 1, wherein
the door is one of transparent or translucent material,
20 thereby facilitating viewing of persons and objects through
the door.